

Product datasheet for **AR31144PU-S**

Dickkopf-2 (DKK2) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Dickkopf-2 (DKK2) human recombinant protein, 2 µg
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	SQIGSSRAKL NSIKSSLGGE TPGQAANRSA GMYQGLAFGG SKKGKNLGQA YPCSSDKECE VGRYCHSPHQ GSSACMVCRR KKKRCHRDGM CCPSTRCNNG ICIPVTESIL TPHIPALDGT RHRDRNHGHY SNHDLGWQNL GRPHTKMSHI KGHEGDPCLR SSDCIEGFCC ARHFWTKICK PVLHQGEVCT KQRKKGSHGL EIFQRCDCAK GLSCKVWKDA TYSSKARLHV CQKI
Predicted MW:	25.8 kDa
Purity:	>98% pure by SDS-PAGE and HPLC analyses
Buffer:	Presentation State: Purified State: Lyophilized (0.2µ Sterile filtered) purified protein from 10 mM Sodium Phosphate, pH 7.5 + 150 mM NaCl
Bioactivity:	Biological: Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3 E1 cells. The expected ED ₅₀ for this effect is 0.5– 1.0 µg/ml.
Reconstitution Method:	Restore in water to 0.1-1.0 mg/ml
Preparation:	Lyophilized (0.2µ Sterile filtered) purified protein from 10mM Sodium Phosphate, pH 7.5 + 150mM NaCl.
Protein Description:	Recombinant Human DKK-2 expressed in CHO cells is a glycoprotein that has a calculated molecular weight of 25.8 kDa and contains 234 amino acid residues. Due to glycosylation, human DKK-2 migrates at an apparent molecular weight of approximately 31-36 kDa by SDS-PAGE analysis under non-reducing conditions.
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_055236
Locus ID:	27123



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UniProt ID:	<u>Q9UBU2</u>
Cytogenetics:	4q25
Synonyms:	DKK-2
Summary:	This gene encodes a protein that is a member of the dickkopf family. The secreted protein contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. It can act as either an agonist or antagonist of Wnt/beta-catenin signaling, depending on the cellular context and the presence of the co-factor kremen 2. Activity of this protein is also modulated by binding to the Wnt co-receptor LDL-receptor related protein 6 (LRP6). [provided by RefSeq, Jul 2008]
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
Protein Pathways:	Wnt signaling pathway